Name:

at1121exam_practice: Radicals and Squares (v616)

Question 1

Simplify the radical expressions.

$\sqrt{45}$ $\sqrt{12}$ $\sqrt{8}$

Question 2

Find all solutions to the equation below:

$$\frac{(x-6)^2+5}{7} = 3$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 + 6x \;=\; 55$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y \;=\; 4x^2 - 40x + 94$$

Express the function in **vertex form** and identify the **location** of the vertex.